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Dated: March 20, 2007

Signature: _____

(Eric M. Brusca)

Docket No.: 27527/40666
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Liu et al.

Application No.: 10/585,459

Confirmation No.: Not Yet Assigned

Filed: July 7, 2006

Art Unit: Not Yet Assigned

For: M-CSF-Specific Monoclonal Antibody and
Uses Thereof

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

U.S. Patent Publication No. 2005/0245417 is an English-language equivalent to International Patent Publication No. WO-03/059395; Canadian Patent No. 2 388 298 is an English-language equivalent to International Patent Publication No. WO-01/30381; European Patent No. EP-0 547 234 is an English-language equivalent to International Patent Publication No. WO-93/00921.

Applicants have not submitted copies of each cited U.S. patent and U.S. patent application as required by 37 CFR 1.98(a)(2)(i), amended October 2004, as the U.S. Patent and Trademark Office has waived this requirement for all U.S. patent applications. Applicant submits herewith copies of foreign and non-patents in accordance with 37 CFR 1.98(a)(2).

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

For the convenience of the Examiner, the cited references have been grouped generally into the following categories. However, the grouping herein is not a representation that the category indicated is the only subject matter of interest in such references.

(1) Cited by the International Searching Authority in related applications

A8 - U.S. Paten No. 5,766,886

A10 - U.S. Patent No. 6,025,146

A13 - U.S. Application No. 2005/059113

B3 - GB 2 405 873

B11 - WO 96/08565

B17 - WO 2004/045532

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C45 - Mouse Anti-Human M-CSF Monoclonal Antibody [692] Datasheet, Catalogue No. MO-C40048B.

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- C33 - Lin et al., J. Exp. Med. 193: 727-739, 2001.
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It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 13-2855, under Order No. 27527/40666.

Dated: March 20, 2007

Respectfully submitted,

By 

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PTO/SB/08A/B (09-06)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO				Complete if Known	
				Application Number	10/585,459
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Filing Date	July 7, 2006
				First Named Inventor	Liu et al.
				Art Unit	
				Examiner Name	
Sheet	1	of	6	Attorney Docket Number	27527/40666

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A1	US-4,816,567	03-28-1989	Cabilly et al.	
	A2	US-4,837,028	06-06-1989	Allen	
	A3	US-5,019,369	05-28-1991	Presant et al.	
	A4	US-5,283,173	02-01-1994	Fields et al.	
	A5	US-5,491,065	02-13-1996	Halenbeck et al.	
	A6	US-5,530,101	06-25-1996	Queen et al.	
	A7	US-5,585,089	12-17-1996	Queen et al.	
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	A9	US-5,939,598	08-17-1999	Kucherlapati et al.	
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	A12	US-2002/0141994-A1	10-03-2002	Devalaraja et al.	
	A13	US-2005/0059113-A1	03-17-2005	Bedian et al.	
	A14	US-2005/0245471-A1	11-03-2005	Balloul et al.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B1	CA-2 388 298-A1	05-03-2001	Aharinejad Seyedhossein		
	B2	EP-0 547 234-A1	06-23-1993	The Green Cross Corporation		
	B3	GB-2 405 873	03-16-2005	Warner Lambert Company		
	B4	JP-5095794	04-20-1993	Otsuka Pharamceuticals Company, Limited		Abstract Only
	B5	JP-6319584	11-22-1994	Morinaga Milk Industry Company, Limited		Abstract Only
	B6	WO-90/09400	08-23-1990	Cetus Corporation		
	B7	WO-91/00741	01-24-1991	Natural Environment Research Council Oxford Virology PLC Roy		
	B8	WO-91/08774	06-27-1991	Cetus Corporation		
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	B17	WO-01/30381	05-03-2001	Hofbauer Reinhold		
	B18	WO-03/059395	07-24-2003	Transgene		

Examiner Signature		Date Considered	
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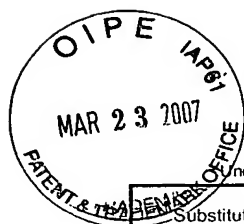
Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Complete if Known		
			Application Number	10/585,459	
			Filing Date	July 7, 2006	
			First Named Inventor	Liu et al.	
			Art Unit		
			Examiner Name		
Sheet	2	of	6	Attorney Docket Number	27527/40666

B19	WO-04/45532	06-03-2004	Chiron Corporation		
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
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C36	Marsh et al., "Regulation of Monocyte Survival <i>in Vitro</i> by Deposited IgG: Role of Macrophage Colony-stimulating Factor," <i>J. Immunol.</i> , 162(10):6217-6225 (1999).	
C37	Martin et al., "Hormonal Regulation of Osteoclast Function," <i>Trends Endocrinol. Metab.</i> , 9:6-12 (1998).	
C38	Martin et al., "Interleukins in the Control of Osteoclast Differentiation," <i>Critical Rev. in Eukaryotic Gene Expression</i> , 8:107-123 (1998).	
C39	Matsuzaki et al., "Human Osteoclast-like Cells are Formed from Peripheral Blood Mononuclear Cells in a Coculture with SaOS-2 Cells Transfected with the Parathyroid Hormone (PTH)/PTH-related Protein Receptor Gene," <i>Endocrinology</i> , 140(2):925-932 (1999).	

Examiner Signature		Date Considered	
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(Use as many sheets as necessary)

Sheet 4 of 6

Complete if Known

Application Number	10/585,459
Filing Date	July 7, 2006
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C40	Monoclonal Anti-Human M-CSF Antibody, Catalogue No. MAB216.	
C41	Morrison et al., "Chimeric Human Antibody Molecules: Mouse Antigen-binding Domains with Human Constant Region Domains," <i>Proc. Natl. Acad. Sci., U.S.A.</i> , 81:6851-6855 (1984).	
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Filing Date	July 7, 2006
First Named Inventor	Liu et al.
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Examiner Name	
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Sheet	6	of	6	Attorney Docket Number	27527/40666
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Complete if Known

Application Number	10/585,459
Filing Date	July 7, 2006
First Named Inventor	Liu et al.
Art Unit	
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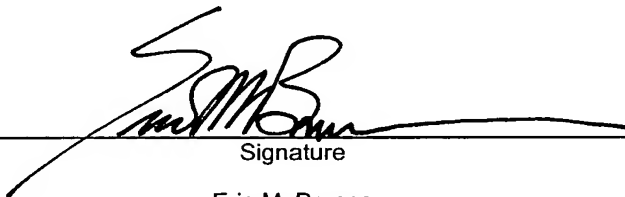
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